



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BACHMANN *et al.*

Appl. No. 10/622,064

Filed: July 18, 2003

For: **Hapten-Carrier Conjugates and  
Uses Thereof**

Confirmation No.: 5977

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0300001/BJD/SJE

**Information Disclosure Statement**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of documents **AL1** to **AN5**; and **AR1** to **AT129** is provided.

Copies of documents **AA1** to **AB3** are not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003."

The Examiner is referred to the following related, co-pending patent applications:

U.S. Patent Application No. 09/449,631, inventors Renner *et al.*, filed November 30, 1999, which is equivalent to International Application PCT/IB99/01925, filed November 30, 1999, and which was published in English on June 8, 2000 as WO 00/32227, submitted herewith as document **AP1**.

U.S. Patent Application No. 10/289,454, filed November 7, 2002, inventors Bachmann *et al.*, Pub. No. 2003/0157479 A1, listed as Document **AK2**;

U.S. Patent Application No. 10/050,898, filed January 18, 2002, inventors Renner *et al.*, Pub. No. 2003/0175711 A1, listed as Document **AA3**;

U.S. Patent Application No. 10/050,902, filed January 18, 2002, inventors Renner *et al.*, Pub. No. 2003/0175290 A1, listed as Document **AB3**;

U.S. Patent Application No. 10/264,267, filed October 4, 2002, inventor Bachmann, M, submitted herewith as Document **AR128**;

U.S. Patent Application No. 10/289,456, filed November 7, 2002, inventors Bachmann *et al.*, submitted herewith as Document **AS128**;

U.S. Patent Application No. 10/617,876, filed July 14, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AT128**;

U.S. Patent Application No. 10/346,190, filed January 17, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AR129**;

U.S. Patent Application No. 10/622,087, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AS129**;

U.S. Patent Application No. 10/622,124, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AT129**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following in regards to non-English language documents cited on the PTO-1449:

Document **AP3**, WO 94/06472 A1, is in the French language. The relevance of Document **AP3** can be ascertained by reference to the English language abstract appearing therein, and an unverified English language abstract attached as Document **AR94**.

Document **AT37**, Kozlovskaya, T.M., *et al.*, "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," *Dokl. Akad. Nauk. SSSR* 287:452-455 (1986), is in the Russian language. An unverified English language abstract (from STNEasy/CAPplus) is attached as Document **AR38**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: Nov. 17, 2003

1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
(202) 371-2600



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0300001/BJD/SJEAPPLICATION NO.  
10/622,064APPLICANT  
BACHMANN et al.FILING DATE  
July 18, 2003GROUP  
1645**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	4,722,840	02/02/1988	Valenzuela et al.			09/19/1985
	AB1	5,071,651	12/10/1991	Sabara et al.			03/05/1990
	AC1	5,143,726	09/01/1992	Thornton et al.			11/20/1989
	AD1	5,334,394	08/02/1994	Kossovsky et al.			01/04/1993
	AE1	5,374,426	12/20/1994	Sabara et al.			10/30/1989
	AF1	5,580,859	12/03/1996	Felgner et al.			03/18/1994
	AG1	5,698,424	12/16/1997	Mastico et al.			01/03/1995
	AH1	5,739,026	04/14/1998	Garoff et al.			08/13/1992
	AI1	5,766,602	06/16/1998	Xiong et al.			01/19/1995
	AJ1	5,770,380	06/23/1998	Hamilton et al.			09/13/1996
	AK1	5,789,245	08/04/1998	Dubensky, Jr. et al.			10/30/1996

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

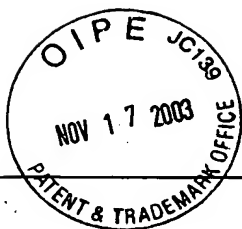
	AR	<u>1</u>	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	<u>1</u>	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	<u>1</u>	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

EXAMINER

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2	5,792,462	08/11/1998	Johnston et al.			05/23/1995
	AB2	5,814,482	09/29/1998	Dubensky, Jr. et al.			10/30/1996
	AC2	5,871,747	02/16/1999	Gengoux-Sedlik et al.			04/28/1995
	AD2	5,928,647	07/27/1999	Rock			09/15/1995
	AE2	6,004,763	12/21/1999	Gengoux et al.			05/12/1998
	AF2	6,054,312	04/25/2000	Larocca et al.			08/29/1997
	AG2	6,231,864 B1	05/15/2001	Birkett			02/11/1999
	AH2	6,380,364 B1	04/30/2002	Mueller et al.			10/06/1999
	AI2	2002/0064533 A1	05/30/2002	Murray			06/04/2001
	AJ2	2002/0081295 A1	06/27/2002	Schiller et al.			04/13/2001
	AK2	2003/0157479 A1	08/21/2003	Bachmann et al.			11/07/2002

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP2	WO 99/28478 A1	06/10/1999	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA3	2003/0175711 A1	09/08/2003	Renner et al.			01/18/2002
	AB3	2003/0175290 A1	09/18/2003	Renner et al.			01/18/2002
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL3	WO 99/57289 A2 & A3	11/11/1999	WIPO			Yes No
	AM3	WO 00/50461 A1	08/31/2000	WIPO			Yes No
	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
	AP3	WO 94/06472 A1	03/31/1994	WIPO			Yes No X

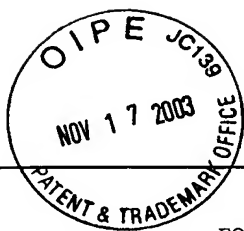
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	3	Antonyssamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
	AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
	AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO4	EP 0 425 082 B1	04/26/1995	Europe			Yes No
	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	<u>4</u>	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	<u>4</u>	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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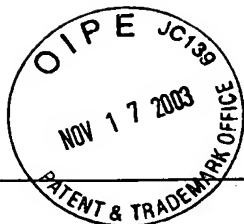
U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 99/07839 A2 & A3	02/18/1999	WIPO			Yes No
	AM5	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)	
AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)	
AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)	

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
	AS	<u>6</u>	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
	AT	<u>6</u>	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>2</u>	Blomfield, I.C., et al., "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	<u>2</u>	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
	AT	<u>2</u>	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," <i>J. Mol. Evol.</i> 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," <i>Transfus. Clin. Biol.</i> 6:17-23, Elsevier, Paris (1999)
	AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 27:1003-1054, New York Academy of Sciences (1965)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	9	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J. Immunol.</i> 142:679-687, The American Association of Immunologists (1989)
	AS	9	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," <i>Protein Expr. Purif.</i> 6:63-71, Academic Press, Inc. (1995)
	AT	9	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," <i>Nat. Med.</i> 11:1308-1312, Nature Publishing Company (1999)

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	AP						Yes No

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	AR	10	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci. USA</i> 93:12890-12895, National Academy Press (1996)
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FORM PTO-1449

ATTY. DOCKET NO.  
1700.0300001/BJD/SJE

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	AP						Yes No

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	AR	<u>11</u>	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an <i>Escherichia coli</i> F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	<u>11</u>	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
	AT	<u>11</u>	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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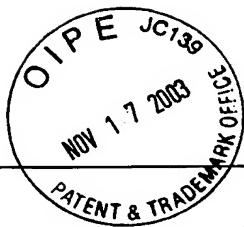
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	AR	15	Davis, N.L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204, Academic Press (1989)
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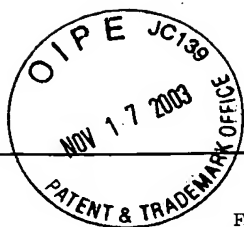
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	AT	<u>16</u>	Eckhardt, S.G., et al., "Hepatitis B Virus Core Antigen Has Two Nuclear Localization Sequences in the Arginine-Rich Carboxyl Terminus," <i>J. Virol.</i> 65:575-582, American Society for Microbiology (1991)

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	AR	<u>17</u>	Eisenmesser, E.Z., <i>et al.</i> , "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)
	AS	<u>17</u>	Eisenmesser, E.Z., <i>et al.</i> , "Solution Structure of Interleukin-13 and Insights into Receptor Engagement," <i>J. Mol. Biol.</i> 310:231-241, Academic Press (June 2001)
	AT	<u>17</u>	Eisenstein, B.I., "Phase Variation of Type 1 Fimbriae in <i>Escherichia coli</i> Is Under Transcriptional Control," <i>Science</i> 214:337-339, American Association for the Advancement of Science (1981)

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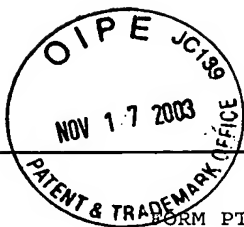
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	AM						Yes No
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	AP						Yes No

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	AR	<u>19</u>	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J Exp. Med.</i> 185:1785-1792, The Rockefeller University Press (1997)
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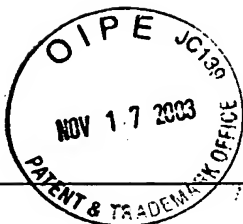
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	AL						Yes No
	AM						Yes No
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	AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
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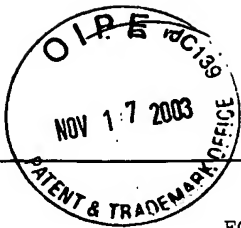
	AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," <i>Curr. Biol.</i> 8:369-376, Current Biology, Ltd. (1998)
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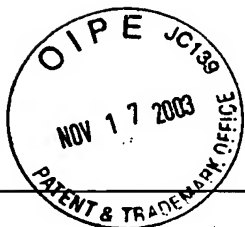
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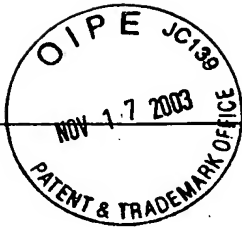
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	AR	32	Jovanovic, D.V., et al., "IL-17 Stimulates the Production and Expression of Proinflammatory Cytokines, IL- $\beta$ and TNF- $\alpha$ , by Human Macrophages," <i>J. Immunol.</i> 160:3513-3521, The American Association of Immunologists (1998)
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	AT	32	Kastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1983)

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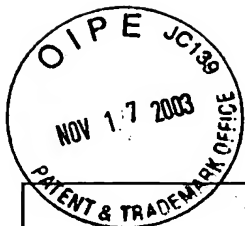
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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	AR	38	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," STNEasy, Accession No. 1986:219892, CAPplus English abstract (1986) (Document AT37)
	AS	38	Krogfelt, K.A., et al., "Direct Evidence that the FimH Protein Is the Mannose-Specific Adhesin of <i>Escherichia coli</i> Type 1 Fimbriae," <i>Infect. Immun.</i> 58:1995-1998, American Society for Microbiology (1990)
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FORM PTO-1449

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ATTY. DOCKET NO.  
1700.0300001/BJD/SJE

APPLICATION NO.  
10/622,064

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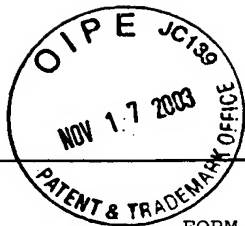
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	AR	39	Kunimoto, D.Y., et al., "High-level production of murine interleukin-5 (IL-5) utilizing recombinant baculovirus expression. Purification of the rIL-5 and its use in assessing the biologic role of IL-5 glycosylation," <i>Cytokine</i> 3:224-230, W.B. Saunders Company (1991)
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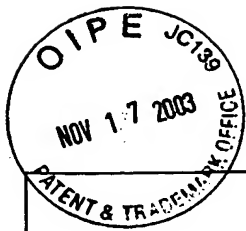
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	AR	45	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells," <i>Nature</i> 395:26-27, Macmillan Magazines, Ltd. (1998)
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	AT	45	Matsui, S.M., et al., "The Isolation and Characterization of a Norwalk Virus-Specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461, The American Society for Clinical Investigation, Inc. (1991)

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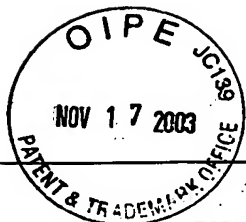
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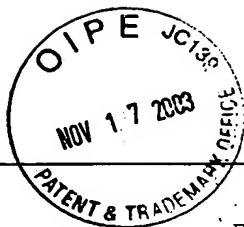
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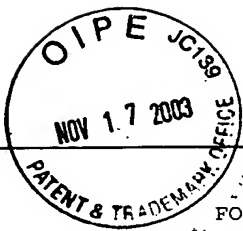
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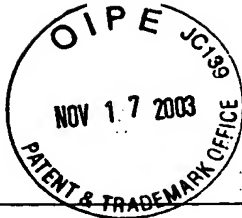
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1700.0300001/BJD/SJE

APPLICATION NO.  
10/622,064

APPLICANT  
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FILING DATE  
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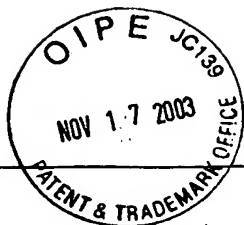
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	AR	52	Neirynck, S., et al., "A universal influenza A vaccine based on the extracellular domain of the M2 protein," <i>Nat. Med.</i> 5:1157-1163, Nature Publishing Company (1999)
	AS	52	Newman, J.V., et al., "Stimulation of <i>Escherichia coli</i> F-18Col Type-1 fimbriae synthesis by leuX," <i>FEMS Microbiol. Lett.</i> 122:281-287, Elsevier (1994)
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	AR	<u>53</u>	Nilsson, P., <i>et al.</i> , "Mutations Affecting mRNA Processing and Fimbrial Biogenesis in the <i>Escherichia coli</i> pap Operon," <i>J. Bacteriol.</i> 178:683-690, American Society for Microbiology (1996)
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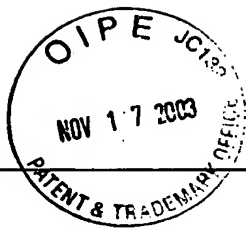
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AR	54	Olszewska, W., et al., "Protection against Measles Virus-Induced Encephalitis by Anti-mimotope Antibodies: The Role of Antibody Affinity," <i>Virology</i> 272:98-105, Academic Press (June 2000)	
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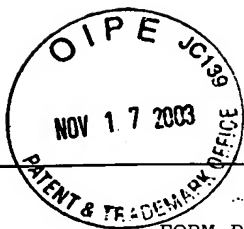
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	AS	55	O'Shea, E.K., <i>et al.</i> , "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," <i>Cell</i> 68:699-708, Cell Press (1992)
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	AR	57	Presta, L.G., et al., "Humanization of an Anti-Vascular Endothelial Growth Factor Monoclonal Antibody for the Therapy of Solid Tumors and Other Disorders," Cancer Res. 57:4593-4599, The American Association for Cancer Research (1997)
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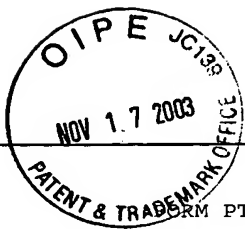
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	AR	<u>58</u>	Renner, W.A., et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," <i>Biotech. Bioeng.</i> 47:476-482, John Wiley & Sons, Inc. (1995)
	AS	<u>58</u>	Risau, W., "Mechanisms of angiogenesis," <i>Nature</i> 386:671-674, Nature Publishing Group (1997)
	AT	<u>58</u>	Ritter, A., et al., "The Pai-associated leuX specific tRNA <sup>Leu</sup> affects type 1 fimbriation in pathogenic <i>Escherichia coli</i> by control of FimB recombinase expression," <i>Mol. Microbiol.</i> 25:871-882, Blackwell Science, Ltd. (1997)

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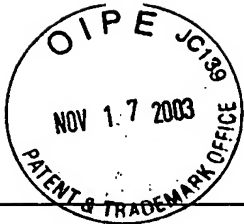
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	AR	60 ✓	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)
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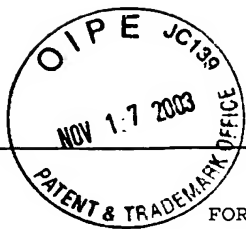
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	AT	63	Soto, H., et al., "The CC chemokine 6Ckine binds the CXC chemokine receptor CXCR3," <i>Proc. Natl. Acad. Sci. USA</i> 95:8205-8210, National Academy Press (1998)

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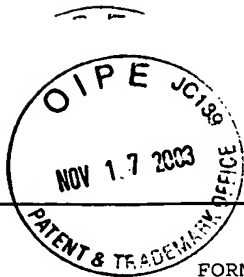
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

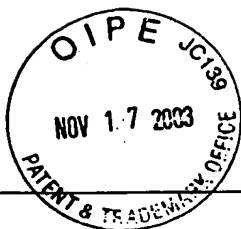
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APPLICATION NO.  
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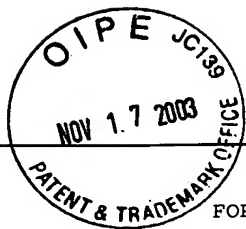
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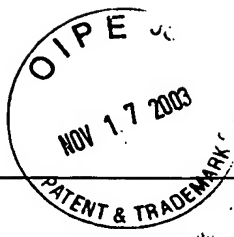
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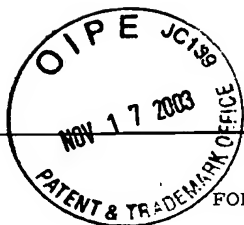
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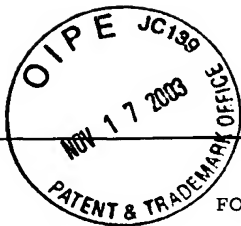
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	AO						Yes No
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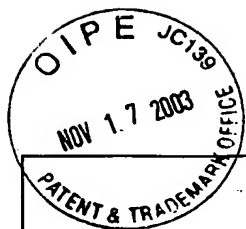
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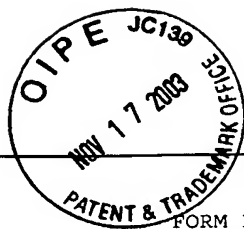
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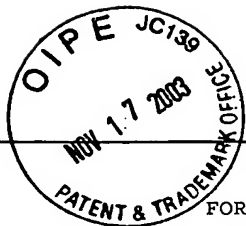
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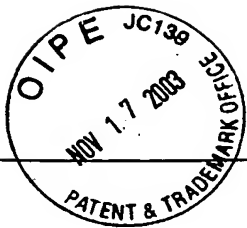
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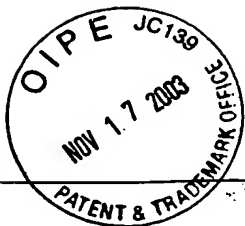
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APPLICATION NO.  
10/622,064

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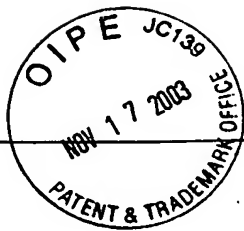
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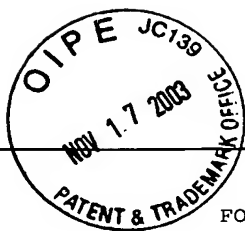
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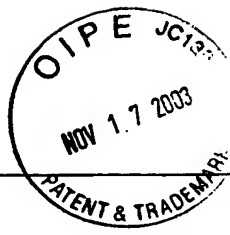
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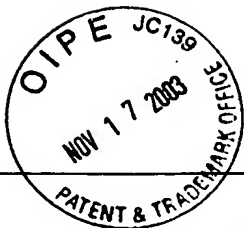
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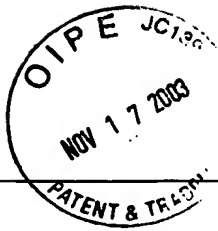
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	AR	<u>85</u>	Gilbert, S.C., <i>et al.</i> , "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)
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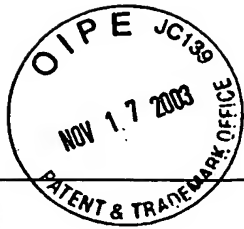
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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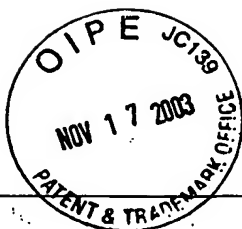
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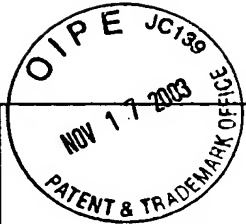
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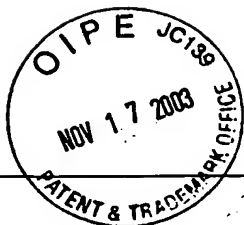
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	AS	<u>91</u>	Rudolf, M.P., et al., Molecular Basis for Nonanaphylactogenicty of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, The American Association of Immunologists (2000)
	AT	<u>91</u>	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508, National Academy Press (1997)

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FORM PTO-1449  <u>INFORMATION DISCLOSURE STATEMENT</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">ATTY. DOCKET NO. 1700.0300001/BJD/SJE</td> <td style="width:50%;">APPLICATION NO. 10/622,064</td> </tr> <tr> <td colspan="2">APPLICANT BACHMANN et al.</td> </tr> <tr> <td>FILING DATE July 18, 2003</td> <td>GROUP 1645</td> </tr> </table>	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064	APPLICANT BACHMANN et al.		FILING DATE July 18, 2003	GROUP 1645
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	AN					Yes No
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### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>92</u>	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 <sup>+</sup> Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443, American Association for the Advancement of Science (1991)
	AS	<u>92</u>	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
	AT	<u>92</u>	Townsend, A., and Bodmer, H., "Antigen recognition by class I-restricted T lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)

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	AS	93	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," <i>Gene Ther.</i> 4:1004-1012, Stockton Press (1997)
	AT	93	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	94	Dialog File 351, Accession No. 9831660, Derwent WPI English language abstract for WO 94/06472 (Document AP3)
	AS	94	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
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	AR	95	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)
	AS	95	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
	AT	95	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)

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	AM						Yes No
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AR	96	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)	
AS	96	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	97	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)	
AS	97	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)	
AT	97	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)	

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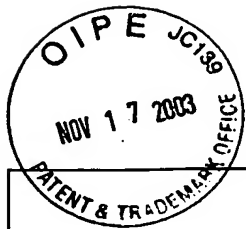
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	98	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovskaja, T.M., et al. (March 1994)	
AS	98	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)	
AT	98	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995)	

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	AR	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995)
	AS	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
	AT	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)

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	AR	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., <i>et al.</i> (April 1995)
	AS	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., <i>et al.</i> (April 1995)

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	AS	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)
	AT	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)

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	AR	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)
	AS	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)
	AT	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995)

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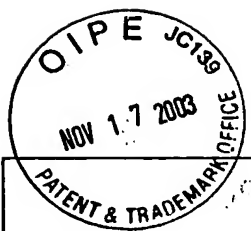
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	AS	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
	AT	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)

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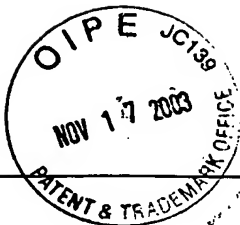
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., <i>et al.</i> (April 1995)
	AS	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., <i>et al.</i> (April 1995)

EXAMINER	DATE CONSIDERED
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



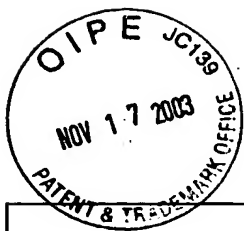
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	107	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)
	AS	107	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
	AT	107	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)

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	AM						Yes No
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	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., <i>et al.</i> (January 1996)
	AS	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., <i>et al.</i> (February 1996)
	AT	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., <i>et al.</i> (April 1996)

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	AN						Yes No
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	AP						Yes No

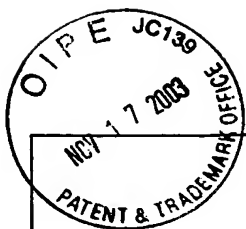
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	AR	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)
	AS	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AT	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., <i>et al.</i> (October 1997)
	AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., <i>et al.</i> (November 1997)
	AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., <i>et al.</i> (April 1998)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)
	AS	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
	AT	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)

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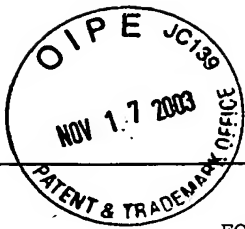
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	AR	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)
	AS	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
	AT	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)

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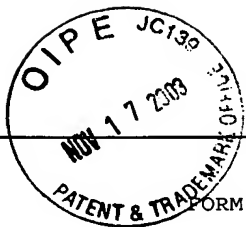
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	113	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)	
AS	113	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)	
AT	113	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)	

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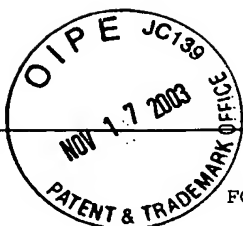
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AS	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AT	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)
	AS	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)
	AT	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)
	AS	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000)
	AT	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., <i>et al.</i> (January 2001)
	AS	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., <i>et al.</i> (January 2001)
	AT	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. AF323080, from Stepan, C.M., <i>et al.</i> (January 2001)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)
	AS	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunkett, G., III, et al. (January 2001)
	AT	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)

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AR	119	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)	
AS	119	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)	
AT	119	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)	

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	AO						Yes No
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	AR	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)
	AS	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AT	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)

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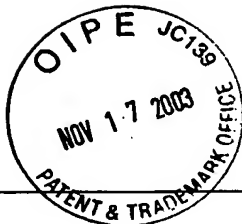
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	AS	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., <i>et al.</i> (February 2002)
	AT	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., <i>et al.</i> (March 2002)

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	122	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)	
AS	122	NCBI Entrez, GenBank Report, Accession No. 009006, from Hromas, R., et al. (June 2002)	
AT	122	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)	

EXAMINER	DATE CONSIDERED
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APPLICANT BACHMANN <i>et al.</i>		
FILING DATE July 18, 2003		GROUP 1645

U.S. PATENT DOCUMENTS							
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	123 ↙	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)
	AS	123 ↙	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
	AT	123 ↙	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)

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	AL						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)
	AS	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
	AT	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)

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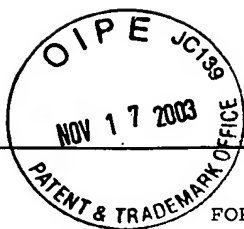
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	125	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)	
AS	125	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)	
AT	125	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)	

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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	126	NCBI Entrez, GenBank Report, Accession No. 000585, from Hromas, R., <i>et al.</i> (September 2003)
	AS	126	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., <i>et al.</i> (September 2003)
	AT	126	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., <i>et al.</i> (September 2003)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)
	AS	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. 035235, entered in Swiss-Prot in October 2001
	AT	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. 014788, entered in Swiss-Prot in October 2001

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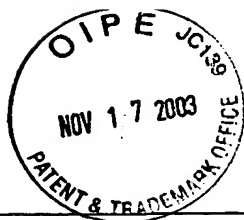
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	128	Copy of co-pending U.S. application 10/264,267, inventors Bachmann, M., filed October 4 , 2002 (NOT PUBLISHED)
	AS	128	Copy of co-pending U.S. application 10/289,456, inventors Bachmann <i>et al.</i> , filed November 7, 2002 (NOT PUBLISHED)
	AT	128	Copy of co-pending U.S. application 10/617,876, inventors Bachmann <i>et al.</i> , filed July 14, 2003 (NOT PUBLISHED)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	129	Copy of co-pending U.S. application 10/346,190, inventors Bachmann <i>et al.</i> , filed January 17, 2003 (NOT PUBLISHED)
	AS	129	Copy of co-pending U.S. application 10/622,087, inventors Bachmann <i>et al.</i> , filed July 18, 2003 (NOT PUBLISHED)
	AT	129	Copy of co-pending U.S. application 10/622,124, inventors Bachmann <i>et al.</i> , filed July 18, 2003 (NOT PUBLISHED)

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